Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

Claim 1 (Currently Amended): A method ~~Method~~ for determining ~~the~~ angles of oblique and arched distortion of a textile fabric ~~or similar~~, with the use of at least one optical detector with axes of symmetry orientated with respect to the fabric, the method comprising ~~characterised by the following steps~~:

illuminating ~~impulse illumination of~~ an area of the fabric ~~or similar~~ with a light source;

acquiring ~~acquisition~~, in digital form, ~~of~~ a real image of the ~~an~~ area of the fabric ~~or similar~~, irrespectively of the orientation of the ~~said~~ optical detector with respect ~~regard~~ to the fabric, wherein the ~~with illumination of said~~ fabric is illuminated for just the time necessary to acquire the image;

rotating ~~rotation of~~ the image and compensating ~~compensation~~ for the orientation of the axes of symmetry of the optical detector with respect ~~regard~~ to the fabric;

applying ~~application~~ to the ~~said~~ image ~~of~~ algorithms useful for increasing the reliability of the results of subsequent processing;

applying a ~~application of the~~ two-dimensional Fourier transformation to the ~~recorded~~ image;

calculating an ~~calculation of the~~ angle of local distortion by analyzing ~~analysis of~~ the ~~two-dimensional~~ spectrum of the Fourier transformation; and

calculating ~~calculation of~~ the angles of oblique and arched distortion, starting from the angle ~~angles~~ of local distortion.

Claim 2 (Currently Amended):   The method ~~Method~~ according to claim 1, wherein ~~where~~ the value of the local angle is generated only on <u>a</u> ~~the~~ request <u>from</u> ~~of~~ a central supervision and control system.

Claim 3 (Currently Amended):   The method ~~Method~~ according to claim 1, wherein ~~in which~~ the <u>illuminating</u> ~~illumination~~ of the fabric ~~or similar~~ is carried out with single impulses and the <u>acquiring</u> ~~acquisition~~ of the images is synchronized with <u>the</u> ~~said~~ impulses.

Claim 4 (Currently Amended):   The method ~~Method~~ according to claim 1, wherein ~~in which~~ the fabric ~~or similar~~ is fixed.

Claim 5 (Currently Amended):   The method ~~Method~~ according to claim 1, wherein ~~in which~~ the fabric ~~or similar~~ is <u>moving</u> ~~in movement~~.

Claim 6 (Currently Amended):   A sensor ~~Sensor~~ for determining the angles of oblique and arched distortion of a fabric ~~or similar~~ according to <u>the method of</u> claim 1, the sensor ~~characterised by the fact of~~ including within a single functional unit:
        focusing optics ~~of the area to be examined~~;
        an ~~impulse~~ illuminator control circuit for <u>controlling</u> ~~commanding~~ the duration of the <u>illuminating</u> ~~illumination~~; and
        an integrated acquisition, processing and communication unit.

Claim 7 (Currently Amended):   The sensor ~~Sensor~~ according to claim 6, wherein ~~in which~~ the integrated acquisition, processing and communication unit includes a static matrix photosensitive device.

Claim 8 (Currently Amended):   A faller ~~Faller~~ device ~~intended~~ for treatment of ~~the~~ textile fabric ~~or similar~~, <u>the faller device comprising</u> ~~by means of~~ actuators for controlling correction of ~~the~~ distortion angles, ~~characterized by~~ at least one sensor

according to claim 6 for detecting ~~the~~ local distortions ~~deformations~~, and ~~by~~ a supervision and control system for acquiring and processing the values of the ~~said~~ local distortions ~~deformations~~, and for controlling the actuators of the faller machine.

Claim 9 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the method of ~~and sensor in~~ claim 1 ~~in machines for controlling and certifying the defects in textile fabrics or similar~~.

Claim 10 (Currently Amended):   The method ~~Method~~ according to claim 2, wherein ~~in which~~ the illuminating ~~illumination~~ of the fabric ~~or similar~~ is carried out with single impulses and the acquiring ~~acquisition~~ of the images is synchronized with the ~~said~~ impulses.

Claim 11 (Currently Amended):   The method ~~Method~~ according to claim 2, wherein ~~in which~~ the fabric ~~or similar~~ is moving ~~movement~~.

Claim 12 (Currently Amended):   The method ~~Method~~ according to claim 3, wherein ~~in which~~ the fabric ~~or similar~~ is moving ~~movement~~.

Claim 13 (Currently Amended):   A faller ~~Faller~~ device ~~intended~~ for treatment of ~~the~~ textile fabric ~~or similar~~, the faller device comprising ~~by means of~~ actuators for controlling correction of the distortion angles, ~~characterized by~~ at least one sensor according to claim 7 for detecting ~~the~~ local distortions, ~~deformations~~ and ~~by~~ a supervision and control system for acquiring and processing the values of the ~~said~~ local distortions ~~deformations~~, and for controlling the actuators of the faller machine.

Claim 14 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the

method of ~~and sensor in~~ claim 2 ~~in machines for controlling and certifying the defects in textile fabrics or similar~~.

Claim 15 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the method of ~~and sensor in~~ claim 3 ~~in machines for controlling and certifying the defects in textile fabrics or similar~~.

Claim 16 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the method of ~~and sensor in~~ claim 4 ~~in machines for controlling and certifying the defects in textile fabrics or similar~~.

Claim 17 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the method of ~~and sensor in~~ claim 5 ~~in machines for controlling and certifying the defects in textile fabrics or similar~~.

Claim 18 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the method of ~~and sensor in~~ claim 6 ~~in machines for controlling and certifying the defects in textile fabrics or similar~~.

Claim 19 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the method of ~~and sensor in~~ claim 7 ~~in machines for controlling and certifying the defects in textile fabrics or similar~~.

Claim 20 (Currently Amended):   A machine for controlling and certifying defects in textile fabrics, the machine being configured to implement ~~The use of~~ the

method ~~of~~ of ~~and sensor in~~ claim 8 ~~in machines for controlling and certifying the defects in~~ ~~textile fabrics or similar~~.